

FIG. 2A

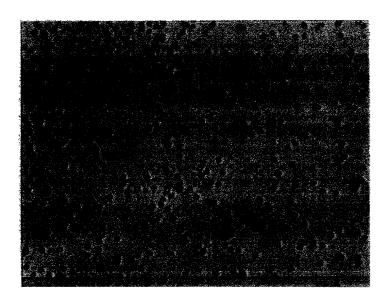


FIG. 2B

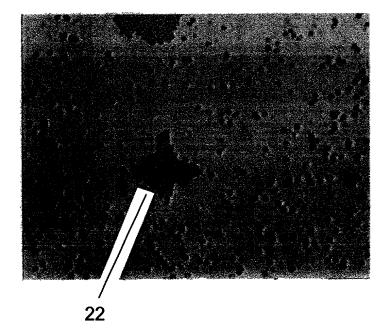


FIG. 2C

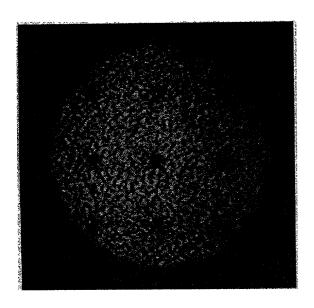
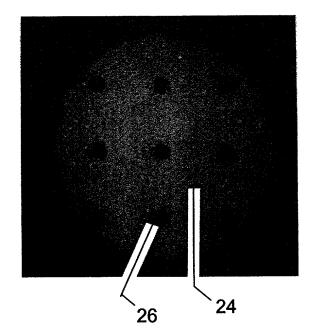
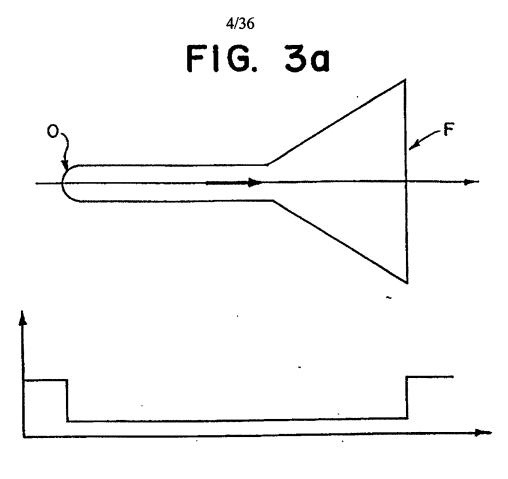


FIG. 2D





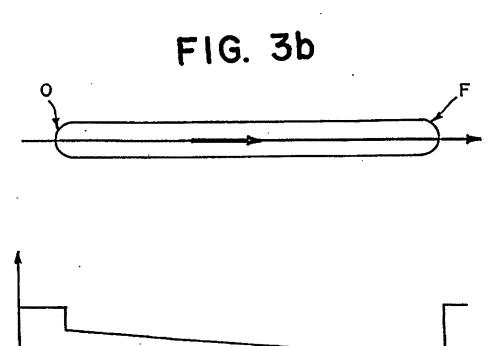


FIG. 3C

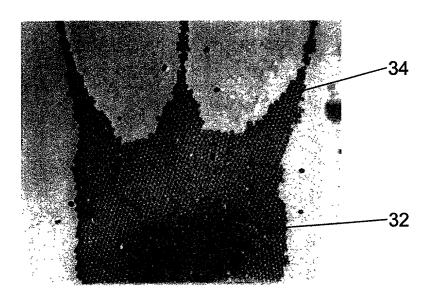


FIG. 3D

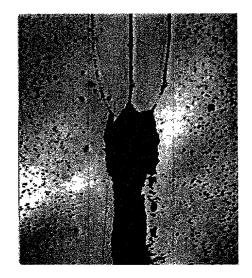


FIG. 4A

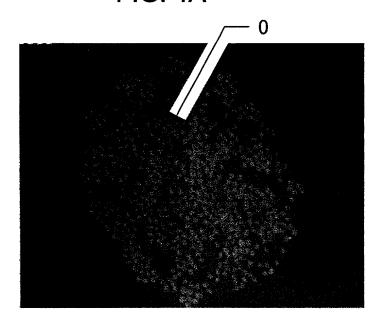


FIG. 4B

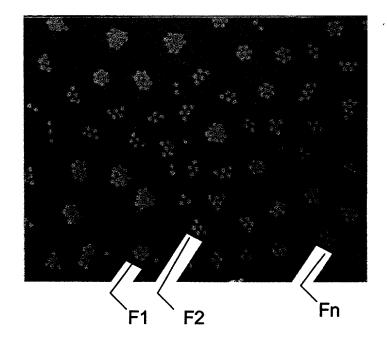
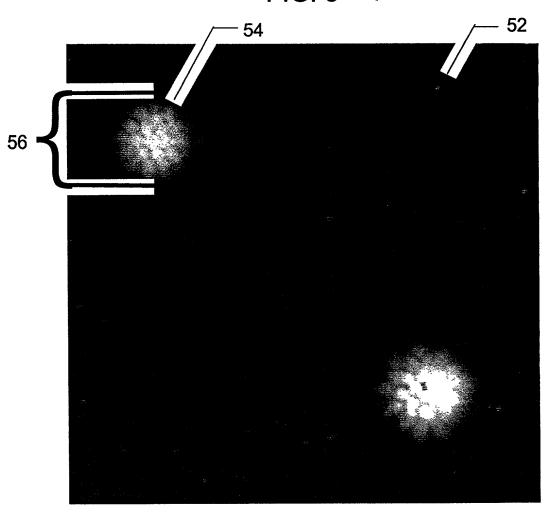
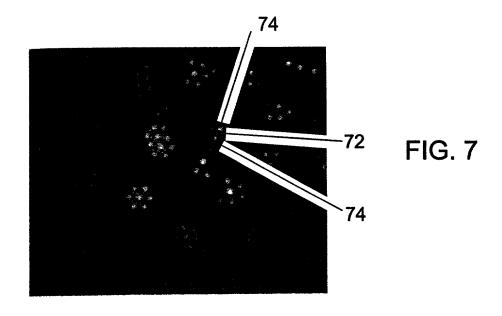
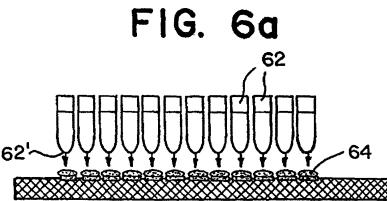


FIG. 5







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FIG. 6b



FIG. 6c



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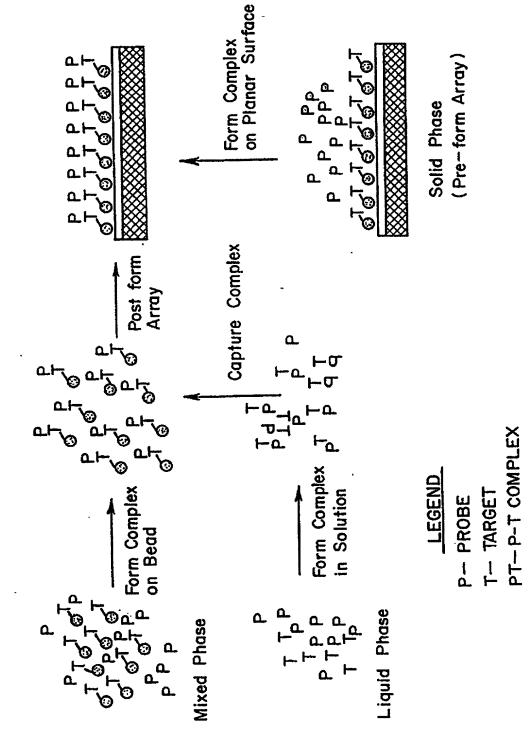


FIG. 9a

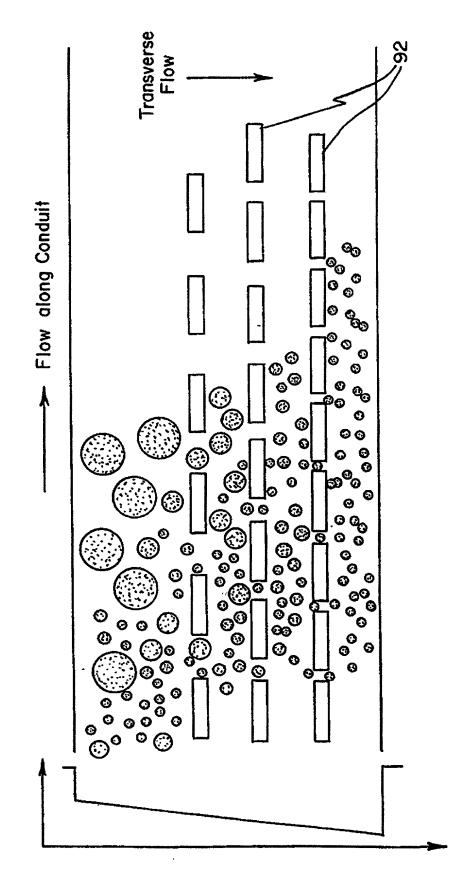


FIG. 9b

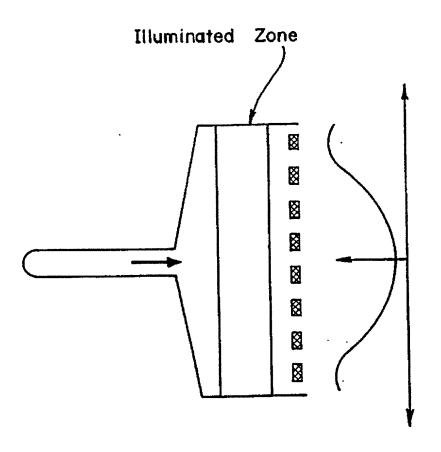
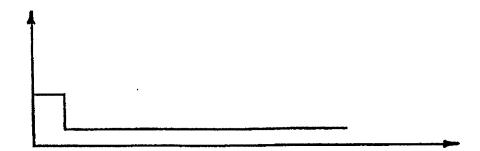


FIG. 9c



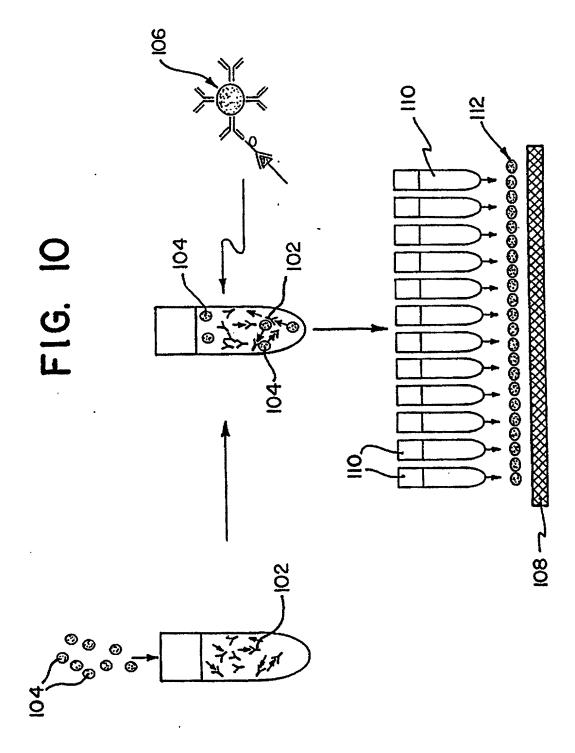


FIG. IIa

FIG. 11b

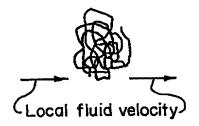
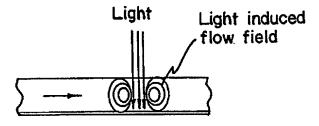
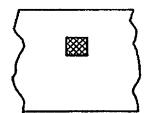


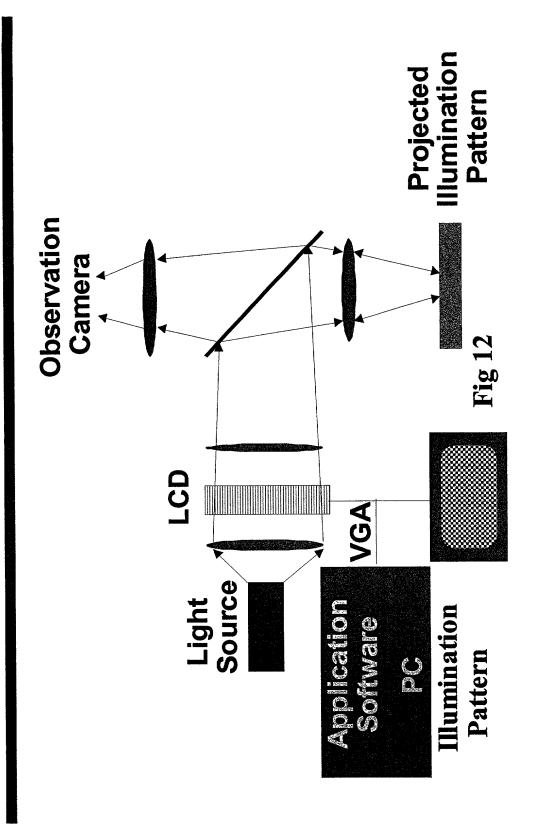
FIG. IIc

FIG. 11d

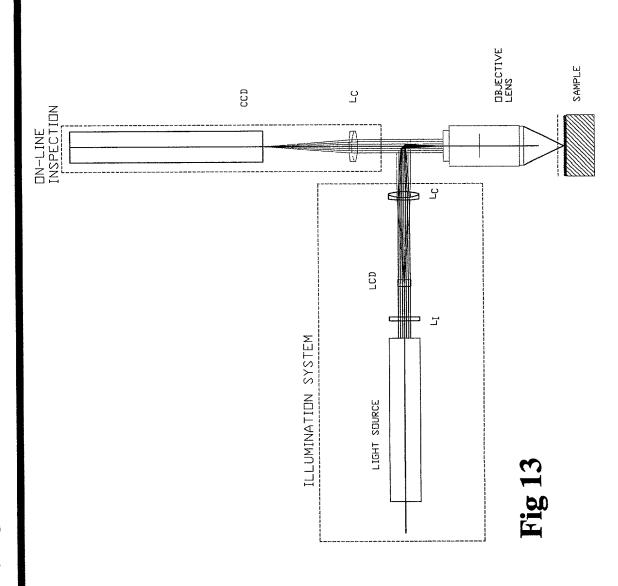




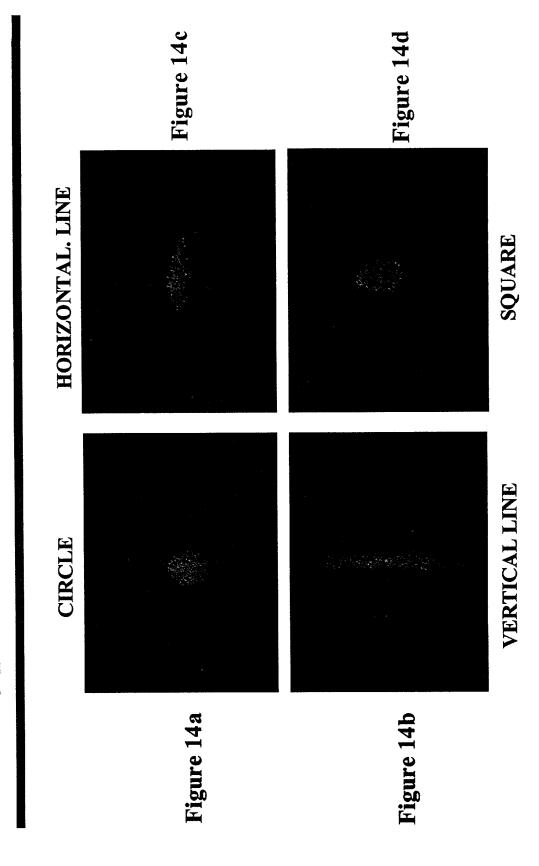
ILLUMINATION PATTERN GENERATOR



LCD-PARSE OPTICAL DESIGN



ARRAY SHAPE ADJUSTMENTS



COLLECTION AND ARRAY ASSEMBLY

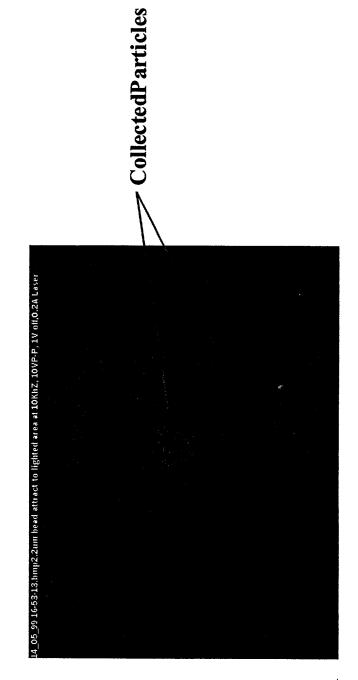


Figure 15a

EXPULSION AND CONFINEMENT

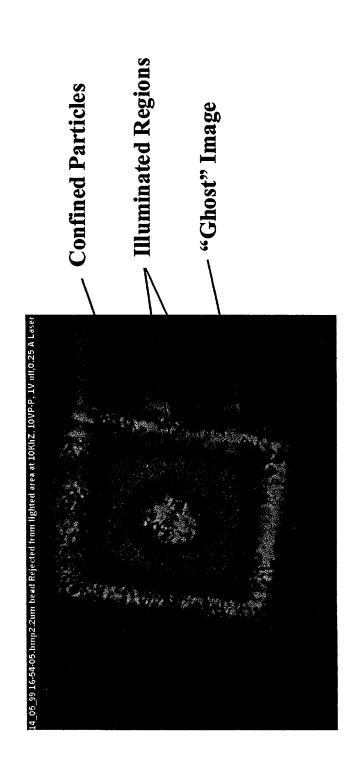


Figure 15b

DRAG AND DROP

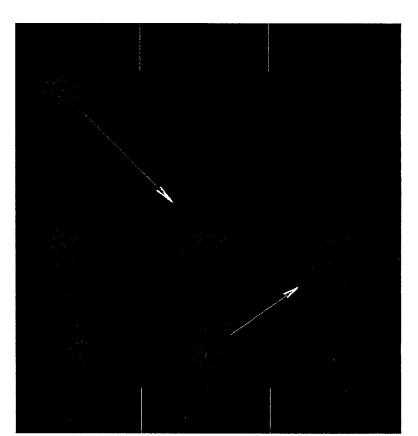


Figure 16

Porgrammable Array Reconfiguration and Segmentation

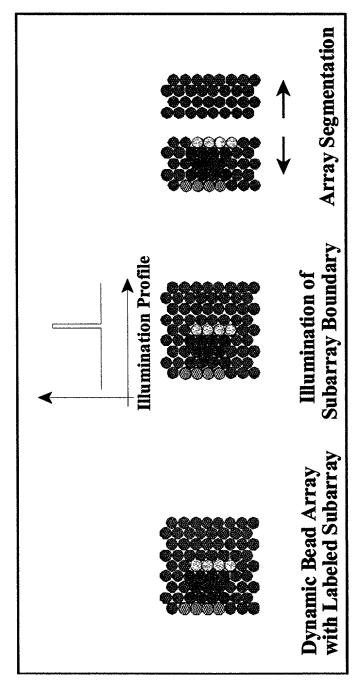


Figure 17

LCD PARSE

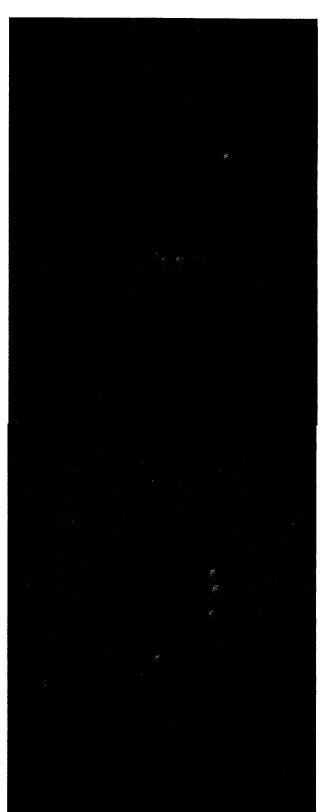


Figure 18a

Figure 18b

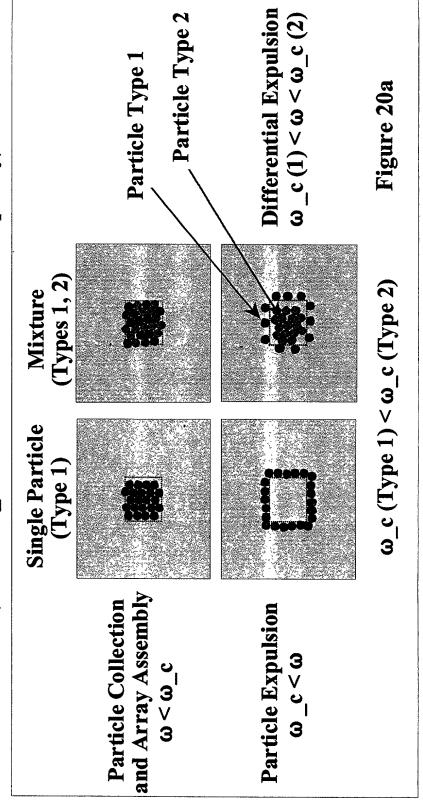
LCD PARSE



Figure 19

FRACTIONATION

Differential Frequency Dependence of Particle Expulsion (NOTE: ω_c denotes a characeristic frequency)



FRACTIONATION

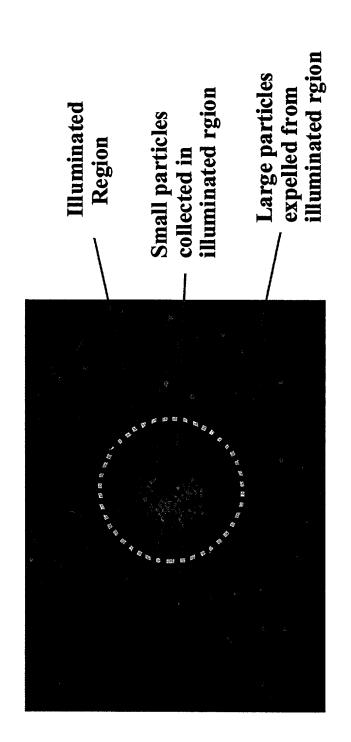


Figure 20b

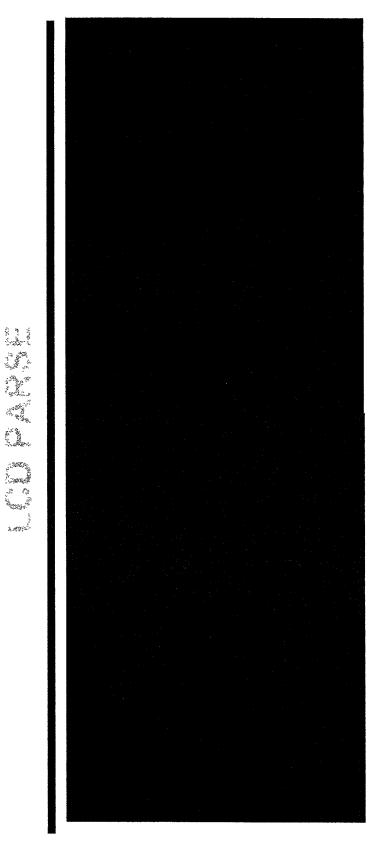


Figure 21b

Figure 21a

Dielectric Sorting Array Segmenta don (PARSE) Selective Anchoring ("Painting") 2 - Post-Processing

Multiple Step Reaction Coding Multi-Step: Random Sequential Injection - Optical - Surface labeling (2 ^n) **※ ↑ 1** A. CHEMICAL ENCODING B. SPATIAL ENCODING Optical

- bulk staining (1-100)

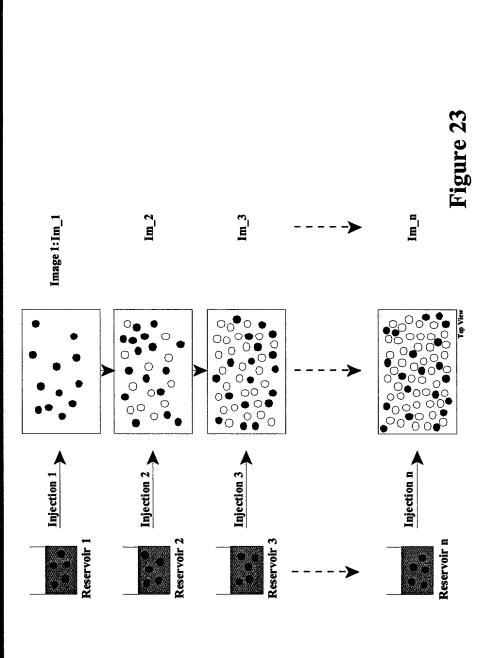
- "stacking"

- Dielectric (1-6) Single Step Carrier Coding Multi-Site: Droplet Array Deposition

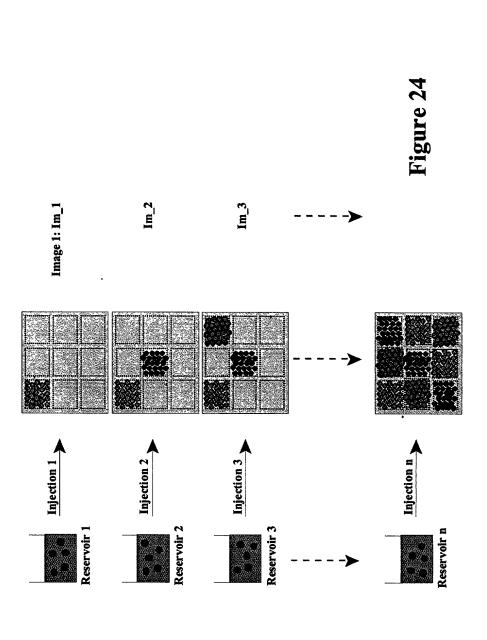
1 - Pre-Processing

Encoding Methodologies

RANDOM SEQUENTIAL INJECTION



SEQUENTIAL INJECTION & LIGHT-CONTROLLED ARRAY PLACEMENT



MACRO-TO-MICRO TANSITION

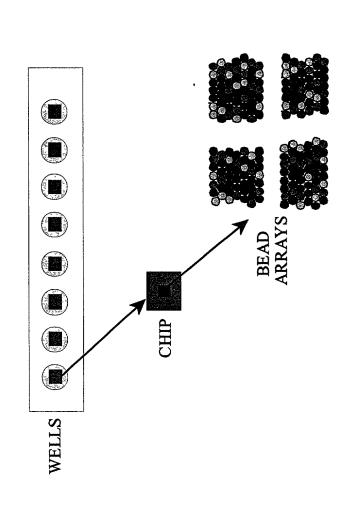
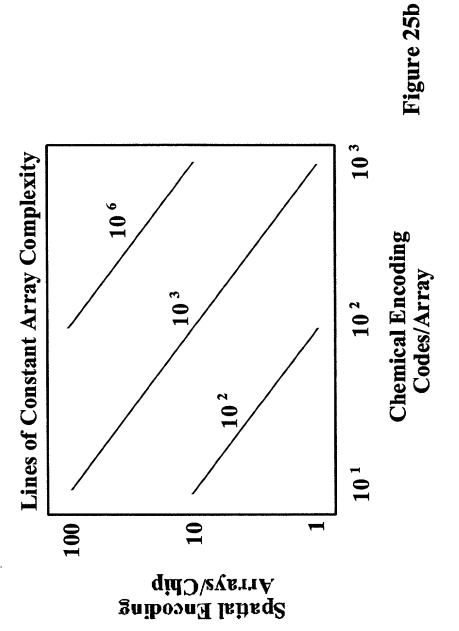
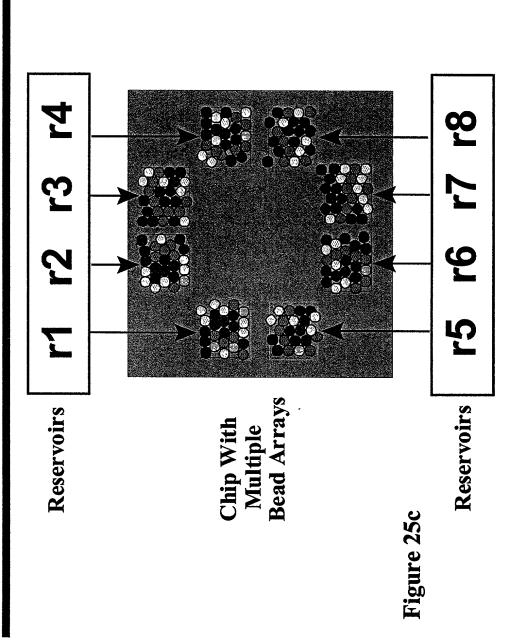


Figure 25a

ARRAY ENCODING



ARRAY ENCODING



SEQUENTIAL ASSEMBLY: "BANDING"

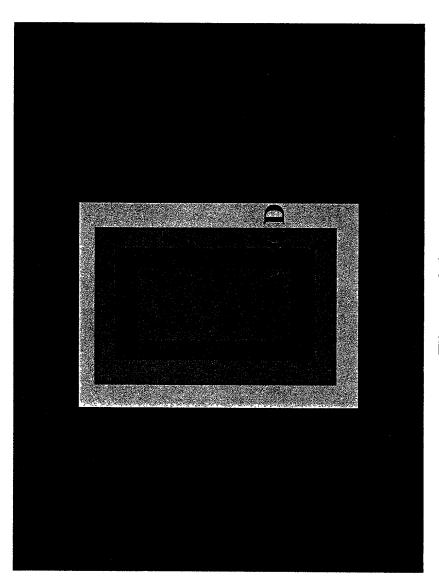
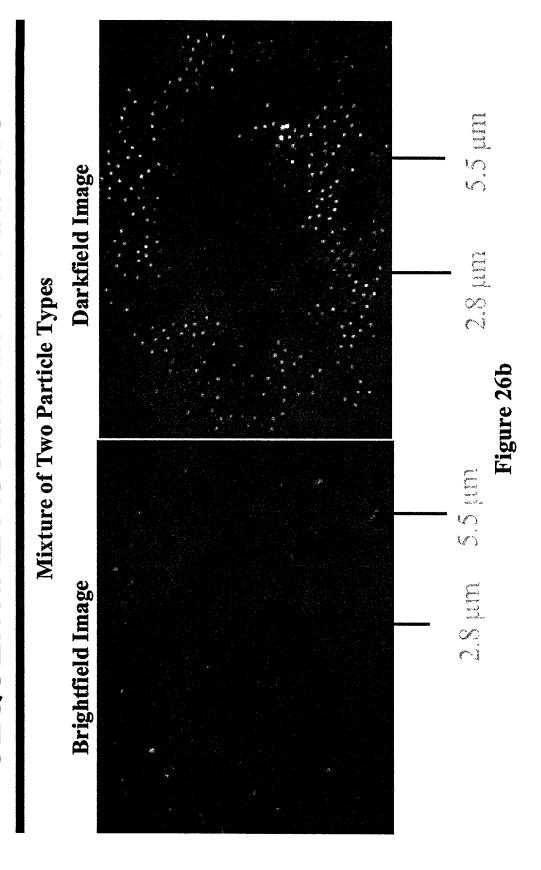


Figure 26a

SEQUENTIAL ASSEMBLY: "BANDING"



LCD PARSE

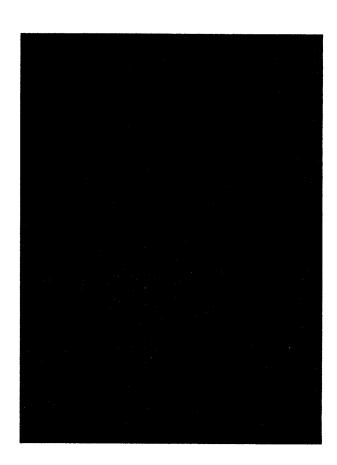


Figure 27

ARRAY OF RANDOM SUBARRAYS

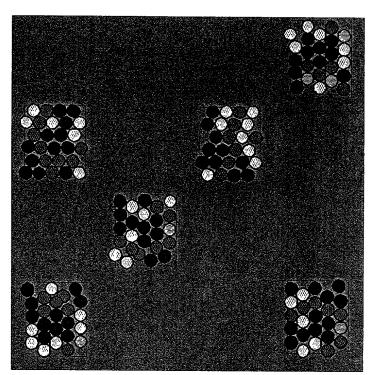


Figure 28

LIGHT-INDUCED FLUID FLOW

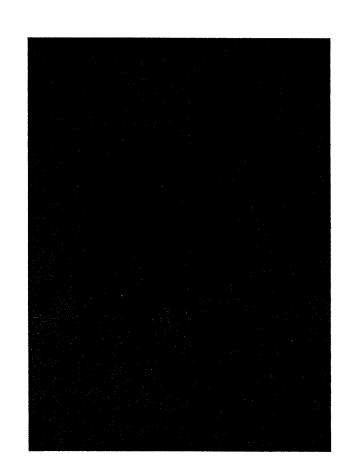


Figure 29